

Era Aviation, Inc.

PROCESS SPECIFICATION

ERAAVIATION INC.

GULF COAST DIVISION LAKE CHARLES, LOUISIANA

PROCESS SPECIFICATION NO. 4010 412 AUXILIARY FUEL TANKS

APPLICATION OF NON SKID SURFACE TO FIBERGLASS REINFORCED PLASTIC

Prepared By: Jave Muphy Date: 8-3-90

Approved By

Quality Control: Yave Murph

Date: 8-3-90

Engineering: 1

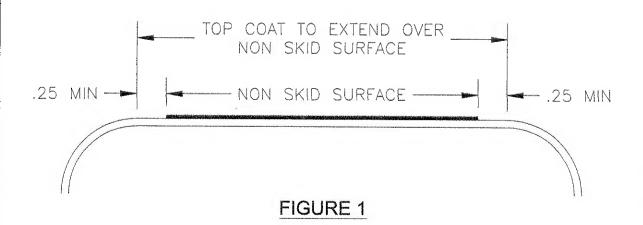
4Date: <u>8-3-90</u>

ERA P S 4010		REV_B	PAGE I DATE <u>6/30/98</u>			
LOG OF REVISIONS						
REVISION	BY DATE	PAGES AFFECTED	REVISION DESCRIPTION	APPROVED DATE		
IR	8/3/90	ALL	INITIAL RELEASE			
A	2/4/91	2	ADD. PARAFFINATED STYRENE TO LIST OF MATERIALS			
	ree	3	ADDED STEPS 6 & 7	P. Schwartz 2/5/91 91.001		
В	6/30/98	3	REVISED STEPS 1, 5 ADDED STEP 6 RENUMBERED STEPS 6 & 7 TO 7 & 8 ADDED FIGURE 1	1. 98.022		
	4	RA PROCESS SF	TECTET CAPTON			

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	SCOPE					
	This specification outlines the requirements for application of a nonskid surface on the exterior of a fiberglass reinforced plastic product.					
	CONFORMATION					
	This specification does not conform to any existing government specification.					
4	SUBCONTRACTORS					
	MESH COMPOSITES, INC. of Lake Charles, LA., not its' subcontractor shall be the only subcontractors qualified to construct the FRP requirements and shall comply with this process specification. Any deviations or variations are to be submitted to ERA for approval with proper documentation prior to fabrication.					
	CONFLICTS					
	In the event of a conflict with engineering drawing(s) and this specification, the drawing(s) shall govern.					

NON SKID SURFACE

- 1. Locate area where the non-skid surface is to be installed. Scuff the entire area using a DA sander and 40g DA paper. Overscuff the area a minimum of .25 per side to allow for top coat sealing of non skid surface.
- 2. Tape the outline of the skid surface to the desired shape.
- 3. Apply a coat of the gel-coat mixture, which consist of clear gel- and Gp resin with a 1 to 1 mixing ratio containing pigment, to the area which has been taped off.
- 4. Before the mixture starts to set, sprinkle a layer of sand over the area previously coated. Allow to cure until hard. Refer to drawing for appropriate grit type.
- 5. Using a 3" brush, lightly wipe away any loose sand from the area. Remove all outline tape as installed in step 4. Using a 3" brush, lightly wipe away any loose sand from the surface.
- 6. Remask the nonskid surface by extending the tape lines a minimum of .25 away from the non skid surface. See Figure 1.
- 7. Prepare a coat of Gp resin by mixing 1 oz. of pigment to 1 pound of resin and 5-10 cc's of wax styrene. Apply the mixture by lightly brushing over the sand coated surface.
- 8. Remove all tape before resin cures.



Industrial Chemical Atlanta, GA

MATERIALS	NAME	MANUFACTURER
RESIN, General Purpose (GP)	33-091	Reichold Chemicals Houston, TX
MEKP Catalyst	Hi-Point 90	Witco Chemical Richmond, CA
UV Inhibitor	UV-9	Industrial Chemical Atlanta, GA
Pigment	CoPlas pigment	CoPlas Fort Smith, AR
	Spartan pigment	Spartan Pigments Houston, TX
Gel Coat	Gel Coay	CoPlas Fort Smith, AR
Sand (see Drawing for grit size) Grit: Fine Medium Coarse	SSC Blasting Sand	S.S.CSAND Houston, TX

Paraffinated Styrene TF-100

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INSPECTION

It is the prupose of the inspection to verify that each part has been fabricated in accordance with and meets the requirements of this specification.

RESPONSIBILITIES:

IT IS THE RESPONSIBILTY OF THE FABRICATOR TO MAKE AVAILABLE TO ERA HELICOPTER OF ITS AUTHORIZED REPRESENTATIVE ANY OF ALL THE FOLLOWING:

RECORDS:

Records pertaining to the part(s) being purchased shall be supplied when requested. These may include:

Materials specifications
Equipment drawings or mold jig
Materials test results
Dimensional verification reports
Rework and repair reports

MATERIALS:

Raw material used shall be virgin materials and shall be visually free of contaminants.

FABRICATED PARTS:

The part to be inspected shall be properly located and positioned, and shall be in condition to permit a thorough inspection. Reasonable means shall be provided to permit the inspector to visually examine the entire non skid surface of the part.

Allowable defects are listed on page 5.

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TEST OF FINISHED PARTS:

The following basic tests shall be included as a minimum in the acceptance inspection:

Surface Cure Test - A rag and an acetone squeeze bottle with acetone shall be provided to determine if the resin has fully cured. The procedure for this is to rub a few drops of acetone on the surface and check for tackiness after the acetone has evaporated. Persistant tackiness indicates an incomplete cure.

Dimensions - The inspector shall be provided with copies of all approved drawings or patterns

APPLICABLE DOCUMENTS:

ASTM Standards

C 581-74 - Test Method for Chemical Resistance of Thermosetting Resins used in Glass Fiber Reinforced Structures

D 638-77a - Test MethodFor Tensile Properties of Plastics

D 883-78a - Definitions of Terms Relating to Plastics

ALLOWABLE DEFECTS

<u>Defect</u> <u>Allowable for Surface</u>

(ie. - not covered with resin/sand)

Exposed scuffed area

Sand not coated with waxed resin None

Non cured areas None

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None